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(WO/2003/023980) SYSTEM AND METHOD FOR SECURING A COMMUNICATION CHANNEL

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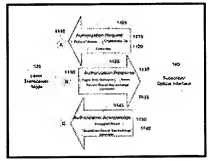
Abstract: A system and method establishes a secure communication channel over an optical network (140). More specifically, the system and method can generally include securing a communications (140) channel to prevent unauthorized access such as eavesdropping or masquerading by employing 1) an encryption scheme derived from the non-linear filtering of shift registers, 2) a method for authenticating and exchanging parameters between two parties over an unsecured data channel for deriving a shared encryption key having a property of perfect forward secrecy, and 3) employing a unique format of the messages that can transport non-secret key exchange parameters (1135, 1140) over an unsecured data channel and secure communications over a data channel.



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